

CLAIMS

1. A silsesquioxane resin wax comprising at least 40 mole % of siloxy units having the formula $(R_2R'SiO_{1/2})_x(R''SiO_{3/2})_y$, where x and y have a value of 0.05 to 0.95, R is an alkyl group having from 1 to 8 carbon atoms, an aryl group, a carbinol group, or an amino group, 5 R' is a monovalent hydrocarbon having 9 – 40 carbon atoms, and R'' is a monovalent hydrocarbon group having 1 to 8 carbon atoms or an aryl group.

2. The composition of claim 1 wherein the silsesquioxane resin wax comprises the units:

10 (i) $(R^1_3SiO_{1/2})_a$
(ii) $(R^2_2SiO_{2/2})_b$
(iii) $(R^3SiO_{3/2})_c$,
(iv) $(SiO_{4/2})_d$,
(v) $(R_2R'SiO_{1/2})_x$ and
15 (vi) $(R''SiO_{3/2})_y$,

wherein

R, R¹, R², and R³ are independently an alkyl group having from 1 to 8 carbon atoms, an aryl group, a carbinol group, or an amino group,
R' is a monovalent hydrocarbon having 9 – 40 carbon atoms,
R'' is a monovalent hydrocarbon group having 1 to 8 carbon atoms or an aryl group
20 a, b, c, and d have value of zero to 0.4,
x and y have a value of 0.05 to 0.95,
with the provisos that the value of x + y is equal to or greater than 0.40,
and the value of a + b + c + d + x + y = 1.

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3. The silsesquioxane resin wax of claim 1 further comprising;

(C) a carrier selected from a volatile siloxane or organic solvent.

4. A personal care product comprising the silsesquioxane resin wax of claim 1 or 3.

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5. The personal care product of claim 4, where the personal care product is a moisturizing cream or lotion.

6. A household care product comprising the silsesquioxane resin wax of claim 1 or 3.

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7. A crude oil wax control product comprising the silsesquioxane resin wax of claim 1 or 3.

8. An automotive care product comprising the silsesquioxane resin wax of claim 1 or 3.

10 9. A process for preparing a silsesquioxane resin wax comprising reacting;

A) a SiH containing alkyl silsesquioxane resin,

B) a C₉ – C₄₀ vinyl terminated hydrocarbon,

C) a hydrosilylation catalyst,

and optionally,

15 D) a solvent.

10. The process of claim 9 where the SiH containing alkyl silsesquioxane resin comprises siloxy units of the formula (R₂HSiO_{1/2})_x(R''SiO_{3/2})_y, where

R is an alkyl group having from 1 to 8 carbon atoms,

20 an aryl group, a carbinol group, or an amino group,

R'' is a monovalent hydrocarbon group having 1 to 8 carbon atoms or an aryl group,

x and y have a value of 0.05 to 0.95,

with the provisos that the value of x + y in the SiH containing alkyl

25 silsesquioxane resin is equal to or greater than 0.40.

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